Data Sheet

ADSL Barricade™ g SMC7804WBRA

54 Mbps Wireless 4-port Router with built-in Annex A ADSL Modem

The ADSL Barricade™ g, SMC7804WBRA, is an all-in-one solution for connecting and sharing your ADSL Broadband connection in your home or office. This multifunctional Annex A ADSL router combines a 2.4GHz 54Mbps 802.11g Wireless Access Point, 4 10/100Mbps RJ45 ports for connection to a PC or Network and an RJ11 WAN port that connects to your ADSL line. The four 10/100Mbps RJ45 ports can be connected to a network hub or switch to expand the number of people sharing your ADSL connection in your home or your office.

The SMC7804WBRA also has a built in DHCP server to make implementing and expanding your network simple and easy. This device supports Full-rate G.dmt, which gives you download speeds of 8Mbps and upload speeds of 640Kbps. Its NAT based Firewall security provides a high level of security for your network. This new device is a complete ADSL solution for PC or MAC users. Graphical user interface software is provided for easy installation, configuration, and management. The LED display panel on the front of the product shows at-a-glance the Ethernet activity, ADSL status and Power. All SMC products are backed by a limited lifetime warranty (5 years) and Free technical support.

Features and Benefits

High Speed Internet Access

- The SMC Wireless ADSL Barricade provides unrivaled asymmetric high-speed data transport over a single copper pair linking Branch Offices, Home Offices & Individual Subscribers to their Network Service Providers, including Internet Service Providers.

Flexibility and Scalability

- The SMC Wireless ADSL barricade is scaleable as the network grows. It brings together the best combination of ADSL technology and the flexibility of Ethernet & Wireless Lan Networks. This flexibility provides maximum performance allowing multiple computers to share local resources, access the Internet simultaneously & keeps you „always connected!"

Easy Setup

- The SMC Wireless ADSL Barricade can be configured and managed locally and remotely via a Web-based configuration tool.
- Investments are protected through the support of popular DSL connection models such as PPP over Ethernet (PPPoE) bridging and routing
- The ADSL Barricade can even support PPP over ATM (PPPoA), bridging and routing.

Security

- The SMC Wireless ADSL Barricade also provides extensive firewall for network protection, VPN pass through (IPSec, PPTP & L2TP) capabilities for reduced cost and remote access communications and DHCP support for Plug-and-Play installations.

Features

- Functions as a Bridge and/or Router
- Ethernet and Wireless Access Point provide greater flexibility for simultaneous sharing of the ADSL and local resources
- Firewall security with WEP, WAP and 802.1x for wireless security
- Remote management and firmware upgrade
- UPnP and Dynamic DNS for Web and Internet appication support

Product	Model No	Description
ADSL Barricade g	SMC7804WBRA	54 Mbps Wireless 4-port Router with built-in ADSL (Annex A) Modem

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SMC® Networks

ADSL Barricade™ g
SMC7804WBRA

54 Mbps Wireless 4-port Router with built-in Annex A ADSL Modem

Specifications

Physical Characteristics

Ports
- Four 10/100Mbps RJ45 Ports
- One ADSL RJ11
- Two external dipole antennas

ADSL Feature
- Supports DMT line modulation
- Supports Annex A Full-Rate ADSL: up to 8Mbps downstream,
- up to 1Mbps upstream (G.992.1 &T1.413, Issue 2)
- Supports G.Lite ADSL: up to 1.5Mbps downstream, up to 512Kbps upstream
- Dying GASP support

ATM Feature
- RFC1483 Encapsulation (IP, Bridging & encapsulated routing)
- PPP over ATM (LLC &VC multiplexing) (RFC2364)
- Classical IP (RFC1577)
- Traffic shaping (UBR, CBR)
- OAM F4/F5 support
- PPP over Ethernet Client

Management Feature
- Firmware upgrade via WEB Based Management
- WEB Based Management (configuration)
- Power Indicators
- Event &History logging
- Network Ping
- SNMP v.1/2 support

Security Feature
- Password protected configuration access
- User authentication (PAP/CHAP) with PPP
- Firewall NAT NAPT
- VPN pass through (IPSec-ESP Tunnel mode,L2TP, PPTP)

LAN Feature
- IEEE 802.1D (self learning transparent Bridging)
- DHCP Server
- DNS Proxy
- Static Routing, RIPv1 and RIP

Application
- Netmeeting, ICQ, Real Player, QuickTime, DialPad, PC Anywhere,
- Telnet, SNTP, NNTP)

Radio Features

Wireless RF module Frequency Band
802.11g Radio: 2.4GHz
802.11b Radio: 2.4GHz
USA - FCC
2412 ~ 2462MHz (Ch1~Ch11)
Canada - IC
2412 ~ 2462MHz (Ch1~Ch11)
Europe - ETSI
2.4000 ~ 2.4835MHz (Ch1~Ch13)
Spain
2457 ~ 2462MHz (Ch10~Ch11)
France
2457~2472MHz (Ch10~Ch13)
Japan - STD-T66/STD-33
2412~2484MHz (Ch1~Ch14)

Modulation Type
- OFDM, CCK

Operating Channels IEEE 802.11b compliant:
- 13 channels (US, Canada)
- 3 channels (ETSI)
- 2 Channels (Spain)
- 4 Channels (France)
- 14 channels (Japan)

IEEE 802.11g compliant:
- 13 channels (US, Canada, Europe, Japan)

b-mode Modulation Rate-Output Power (dBm)
- 1Mbps 16 dBm
- 2Mbps 16 dBm
- 5.5Mbps 16 dBm
- 11Mbps 16 dBm

g-mode Modulation Rate-Output Power (dBm)
- 6Mbps 15 dBm
- 9Mbps 15 dBm
- 12Mbps 15 dBm
- 18Mbps 15 dBm
- 24Mbps 15 dBm
- 36Mbps 15 dBm
- 48Mbps 15 dBm
- 54Mbps 15 dBm

b-mode Modulation Rate- Receiver Typical Sensitivity (dBm)
- 1Mbps -90 dBm
- 2Mbps -88 dBm
- 5.5Mbps -85 dBm
- 11Mbps -84 dBm

g-mode Modulation Rate-Receiver Typical (Sensitivity dBm)
- 6Mbps -88 dBm
- 9Mbps -878 dBm
- 12Mbps -84 dBm
- 18Mbps -82 dBm
- 24Mbps -79 dBm
- 36Mbps -75 dBm
- 48Mbps -68 dBm
- 54Mbps -68 dBm

Environmental

SMC7404WBRA complies with the following standards:

Temperature: IEC 68-2-14
- 0 to 50 degrees C (Standard Operating)
- -40 to 70 degree C (Non-operation)
- Humidity
- 10%to 90% (Non condensing)
- Vibration: IEC 68-2-36, IEC 68-2-6
- Shock: IEC 68-2-29
- Drop: IEC 68-2-32

Dimensions
- 220 x 132 x 30 (mm)

Weight
- 550g

Power Input
- 12V/1A

IEEE Standards
- IEEE 802.3, 802.3u, 802.11g, 802.1D
- ITU G.dmt
- ITU G.Handshake
- ITU T.413 issue 2 - ADSL full rate

Standards Conformance Electromagnetic Compatibility
- CE, ETSI, R&TTE, FCC part 15 class B & FCC part 68
  ETS 300 328, ETS 300 826

Safety
- CSA/NRTL (UL1950, CSA 22.2.950)
  GS (EN60950), CB (IEC60950)

Internet Standards
- RFC 826 ARP
- RFC 791 IP
- RFC 792 ICMP
- RFC 768 UDP
- RFC 793 TCP
- RFC 783 TFTP
- RFC 1483 AAL5 Encapsulation
- RFC 1661 PPP
- RFC 1866 HTML
- RFC 2068 HTTP
- RFC 2364 PPP over ATM

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